

Phased array based ultrasound scanning system development

Sagdiev R., Denisov E., Evdokimov Y., Fazlyyyakhmatov M., Kashapov N.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. Multichannel ultrasound scanning system based on phased arrays development is presented in this paper. Substantiation of system parameters is presented. The description of block diagram and hardware development is presented. The combination of the self-developed receiving and a transmitting units and commercially available FPGA unit and Personal Computer can solve our scientific goals, while providing a relatively low device cost.

<http://dx.doi.org/10.1088/1757-899X/69/1/012012>
